

## Today's Topics:

airport security  
Anomaly in A&A AM WEFAX Demodulator's ADC  
a program for the callsign project (2 msgs)  
ARRL NR 82: AO-13 CRASH  
callsign database????  
INFO-HAMS Mail Archives  
I want my old callsign back !  
Radio Direction Finding toys?  
Schematics needed - novice rig

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Date: Wed, 1 Nov 89 22:16:37 CST

From: rlwest@flop2.csc.ti.com (Bob West - WA8YCD - DSEG/HRD Computer Systems  
Training - MSG HRD1 - 995-1908)

Subject: airport security

Subj: Re: airport security

>>>In article <8910310805.AA27410@ucbvax.Berkeley.EDU> faunt@CISCO.COM (Doug Faunt  
N6TQS 415-688-8269) writes:

>>I've now walked on to four different flights with an HT on my hip,

>>sure enough, the security guy asked to see the HT. It turns out, he  
>>has a Novice license, and had never seen a IC32 up close before.

...neat story!

>Do YOU want to take the chance of affecting the nav equipment of an  
>aircraft when you're not on the ground???? I don't....I'm a pilot....  
>I know better.

I'd even avoid it during IFR in a Cessna! (Assuming prior discussion referring  
to th' Big'uns...)

> I'D RATHER BE FLYING!!! <-

Me too... unfortunately, I'm an flying-addict. If I fly a little I gotta fly  
a whole bunch. [Saturday touch-and-go's and short cross-countries don't do it]  
so I'm "on the wagon" (and off the airplane?) otherwise I'll be bankrupt!

73,

Bob WA8YCD

RLWEST@FLOPN2.CSC.TI.COM

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Date: 31 Oct 89 22:50:53 GMT  
From: amdahl!pyramid!leadsv!practic!vlsisj!davidc@ames.arc.nasa.gov (David Chapman)  
Subject: Anomaly in A&A AM WEFAX Demodulator's ADC

In article <1989Oct25.170818.1007@IDA.ORG> roskos@IDA.ORG (Eric Roskos) writes:

>...It appears simply to  
>be a problem with the demodulator board itself... possibly that the  
>A/D converter that is used is too slow to convert a particular value of the  
>demodulated signal before it changes to a new value, so the ADC gets partway  
>through the conversion, finds the value has changed significantly, and  
>gets 0's for the low-order bits as a result.

>

>...

>

>It looks like some artifact of how the ADC works... I have an ADC0820  
>which I am thinking of trying to see if it works better (the A/D  
>converter on the A&A board is an ADC0804), since the ADC0820 has a  
>built-in sample and hold, and can convert at around 20,000  
>samples/second.

Your symptoms are definitely those of a missing sample/hold amplifier. I was building a data logger using a 12-bit, 70 KHZ ADC (back in '82 when 12-bit A/D was hard to do cheaply) and I was having severe noise problems. I was getting only 8 of the 12 bits reliably. I sent the ADC back with a complaint (it was a \$135 hybrid module). They couldn't find anything wrong but sent me a new one anyway. It failed too.

That caused me to look at my design more closely, and I found that I had omitted the sample/hold capacitor (the app note made it look optional). I put the cap in, and I had 12 bits of A/D again. How embarrassing. :-(

If the ADC doesn't have sample/hold, and you can put in one that does, by all means do so. I wouldn't trust an ADC at anything close to the Nyquist limit for your input data without sample/hold.

--

David Chapman

{known world}!decwrl!vlsisj!fndry!davidc  
vlsisj!fndry!davidc@decwrl.dec.com

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Date: 1 Nov 89 23:29:18 GMT  
From: cadnetix.COM!cadnetix!rusty@uunet.uu.net (Rusty Carruth)

Subject: a program for the callsign project

In article <10148@cadnetix.COM> rusty@cadnetix.COM (Rusty Carruth  
(thats me!)) writes:

...my blatherings deleted.....

>Here is the output from it after running it to find  
>2 'random' :-) callsigns:

...

>Please enter callsign to search for N7IKQ

>Searching for N7IKQ

>

>K7IKR A Francis Longo

> 1014 Grapevine Rd

> Santa Maria, CA 93454

>

>Command (fc,fl,ff,ffl,f,q,?) ? q

>

>Oh, dear, I found a bug! Well, back to the drawing board.

>

Ok, now, lets try that again, this time with the NEW version:

Command (fc,fl,ff,ffl,f,q,?) ? fc

Please enter callsign to search for N7IKQ

Searching for N7IKQ

N7IKQ T Carroll D Carruth Jr

1260 Forum Dr

Lafayette, CO 80026

Command (fc,fl,ff,ffl,f,q,?) ? q

There, thats much better. (Thats me, in case you did not  
notice the similarity :-).

Ok, so now the question is - how many people want this  
little example of how not to code in C++? And how  
should I distribute it? EMAIL!!! please, and I'll  
summarize and make a decision.

Again EMAIL!!! thanks.

---Join the usenet un-net, 28.410 and/or 28.390, 1600Z to 1700Z saturdays!

Rusty Carruth.                      Radio: N7IKQ                      ^^ or later :-)  
DOMAIN: rusty@cadnetix.com        UUCP:{uunet,boulder}!cadnetix!rusty  
home: POB. 461, Lafayette 80026

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Date: 1 Nov 89 23:20:18 GMT  
From: cadnetix.COM!cadnetix!rusty@uunet.uu.net (Rusty Carruth)  
Subject: a program for the callsign project

Well, just for kicks I wrote a (pretty awful, structurally speaking) C++ program to take the 46 meg file from the 'callsign project' and do a binary search of it for a callsign.

Whats so great about that? Well, first its my first C++ program.

Second, the callsigns are no longer in the split strange-o format but rather back into N7IKQ (rather than '7IKQ N' format) form, but they are sorted as though they were stored in the split format.

Thirdly, (?) the records are all variable-length.

Here is the output from it after running it to find 2 'random' :-) callsigns:

Command (fc,fl,ff,ffl,f,q,?) ? fc

Please enter callsign to search for WV0P  
Searching for WV0P

WV0P E Colin R Wright  
1031 Turner Blvd 4  
Omaha, NE 68105

Command (fc,fl,ff,ffl,f,q,?) ? fc

Please enter callsign to search for N7IKQ  
Searching for N7IKQ

K7IKR A Francis Longo  
1014 Grapevine Rd  
Santa Maria, CA 93454

Command (fc,fl,ff,ffl,f,q,?) ? q

Oh, dear, I found a bug! Well, back to the drawing board.

In any case, its really rather quick at finding things, and I'd be willing to post it to a sources group somewhere, but how many people have a c++ compiler? (I can also run the C++ preprocessor on it and post that, as well, which is valid 'c' code and should be able to be sent off to a 'normal' c compiler).

(I won't post it until its fixed, though! :-).

73 de rusty n7ikq

---Join the usenet un-net, 28.410 and/or 28.390, 1600Z to 1700Z saturdays!  
Rusty Carruth. Radio: N7IKQ ^^ or later :-)  
DOMAIN: rusty@cadnetix.com UUCP:{uunet,boulder}!cadnetix!rusty  
home: POB. 461, Lafayette 80026

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Date: 2 Nov 89 02:48:49 GMT  
From: n8emr!gws@tut.cis.ohio-state.edu (Gary Sanders)  
Subject: ARRL NR 82: AO-13 CRASH

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| Relayed from packet radio via |  
| N8EMR's Ham BBS, 614-457-4227 (1200/2400/19.2 telebit,8N1) |  
=====

ARRL BULLETIN 82 (ARLB082) 10/31/89

AMSAT REPORTS ANOTHER CRASH OF THE IHU ON BOARD AO-13. ALL USERS ARE REQUESTED NOT TO USE OSCAR 13 UNTIL FURTHER NOTICE. AR

--  
Gary W. Sanders (gws@n8emr or ...!osu-cis!n8emr!gws), 72277,1325  
N8EMR @ W8CQK (ip addr) 44.70.0.1 [Ohio AMPR address coordinator]  
HAM/SWL/SCANNER BBS (1200/2400/PEP) 614-457-4227

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Date: 1 Nov 89 23:11:14 GMT  
From: cadnetix.COM!cadnetix!rusty@uunet.uu.net (Rusty Carruth)  
Subject: callsign database????

In article <245@ssc.UUCP> tad@ssc.UUCP (Tad Cook) writes:

>

...<stuff about Buckmaster phone number>...

>The info is only put in a couple of times per month,

you sure its that often? Just curious, I thought the FCC  
only updated their data once a month to the NTIS...

(And the NTIS gets it up to a month after the 'closing'  
of the update, and it takes them a week or so to get it  
turned around....)

---Join the usenet un-net, 28.410 and/or 28.390, 1600Z to 1700Z saturdays!  
Rusty Carruth. Radio: N7IKQ ^^ or later :-)  
DOMAIN: rusty@cadnetix.com UUCP:{uunet,boulder}!cadnetix!rusty  
home: POB. 461, Lafayette 80026

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Date: Wed, 1 Nov 1989 22:00 MST  
From: "Frank J. Wancho" <WANCHO@WSMR-SIMTEL20.ARMY.MIL>  
Subject: INFO-HAMS Mail Archives

Because of a disk space crunch, all of the older mail files in several  
of the larger mail archives on SIMTEL20, including INFO-HAMS, have  
been taken off-line until additional disk drives are procured and  
installed. At that time, no earlier than January, all the mail  
archives will be restored.

--Frank

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Date: Wed, 1 Nov 89 22:02:47 CST  
From: rlwest@flop2.csc.ti.com (Bob West - WA8YCD - DSEG/HRD Computer Systems  
Training - MSG HRD1 - 995-1908)  
Subject: I want my old callsign back !

>From: TILDE::"phil@ux1.cso.uiuc.edu" "Phil Howard KA9WGN" 1-NOV-1989  
18:23:35.61

>To: rlwest@flop2

>Subj: Re: I want my old callsign back !

>

>Personal opinion here is that he should get it if it is still available, and  
>someone is willing to pay for the extra steps needed to get it to him (should  
>not be very much).

>

>I'll have to read the rules again. I was under the impression there was just  
>one level of grace period after a license expired, and that you were still  
>just renewing a license in that period as opposed to getting a new one. But

>I though it was 2 years. Maybe there is yet another longer period where you  
>can get a NEW license (i.e. the've removed you from the database already)  
>but don't have to take the test again.  
>

Yeah, Phil, I agree...

In reference to renewals and grace periods:

License Terms (copied from p. 4-6 of the 8th edition)

"Licenses are normally good for ten years. If you have a license good for the old five-year term, a grace period of five years is allowed should you forget to renew. After two years of the grace period has passed, you will lose your call sign and will be assigned a new one.

"If you have a new 10-year-term license, issued since January 1984, the grace period for reinstatement is two years.

"If you apply for reinstatement of your license under the grace period, you may not operate your station until your reinstated ticket arrives."

Thus spake the ARRL "FCC Rule Book" staff...

73,

Bob WA8YCD  
RLWEST@FLOPN2.CSC.TI.COM

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Date: 2 Nov 89 01:56:29 GMT  
From: csusac!mmsac!jim@ucdavis.ucdavis.edu (Jim Lips Earl)  
Subject: Radio Direction Finding toys?

Yup, I've seen the ad, too. Looks pretty neat. I wonder what kind of range the thing has. It may come in hand for survielance work (if you could disguise the tx unit).

--

Jim "Lips" Earl  
KB6KCP

UUCP: sun!sacto!mmsac!jim  
INTERNET: mmsac!jim@sacto.West.Sun.COM

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The opinions stated herein are all mine.

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Date: 1 Nov 89 18:08:56 GMT

From: rti!tijk02!jkl141@mcnc.org (John Leroy )  
Subject: Schematics needed - novice rig

I've unearthed what appears to be a good loaner rig for a new novice here, but don't have schematics for it so I can repair it easily. It's a CONAR model 500 receiver and model 400 transmitter. I believe these were sold as part of a ham radio training course by National Radio Institute, Washington, DC. Both tube-type, of course, and pretty simple. I'm hoping to get the manuals to loan out also. If you have copies of one or both manuals, or just a schematic, please send me an email message so we can work out a way for me to obtain a copy.  
Thanks!

--

-John LeRoy

Packet Radio: WA4VLV @ WX4S  
Compuserve: 74136,401  
UUCP: mcnc!rti!tijk02!jkl141  
Phone: 615-461-2440

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End of INFO-HAMS Digest V89 Issue #835  
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